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# Energy Efficient Buildings

## Planning. Building Technology. Automation.



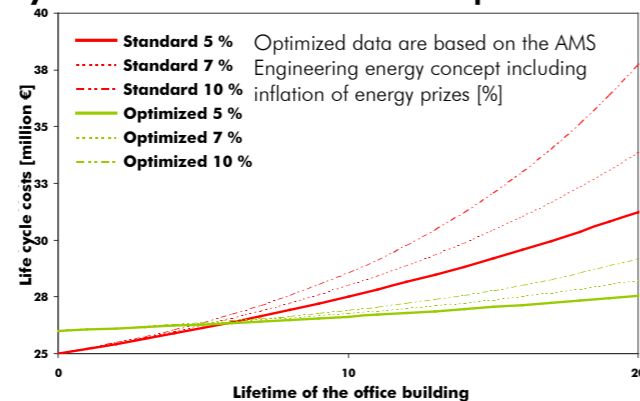
## Your Total Costs.

Operating costs of a building can be up to five times of the investment costs. Energy efficient buildings minimize life cycle costs and offer financial independence of unstable global energy markets. Our professional analyses and

simulations begin right with your project, to generate the maximum benefit for you. Holistic planning and integrated building automation ensure this benefit.

## Highest Efficiency Made by AMS Engineering.

Life cycle costs of a standard and an optimized building



## The Questions are:

### Renovation

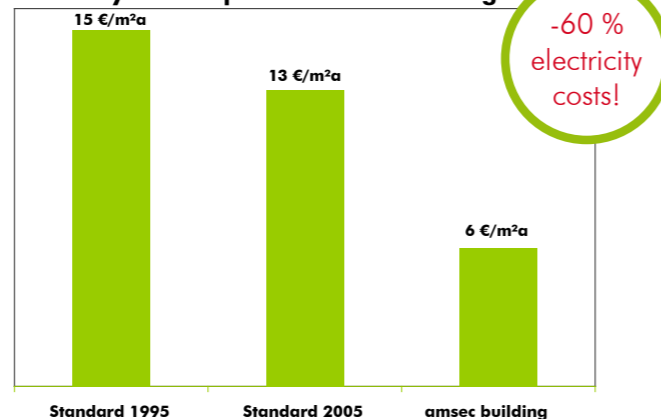
- What are your energy costs?
- Do you know your energy savings potential?
- Is your building technology really efficient or does it "only work"?
- Do you know the energy key figures of your building?

### New building

- Will the building function in practice?
- What energy costs can you expect?
- Will overheating occur?
- How do you ensure that the different parts of the building technology interact perfectly?

## We've got the Answers.

Electricity consumption in office buildings



## Our Know-how.

### Planning.

- Analysis of user / system loads
- Thermal building simulation
- Holistic energy concept
- Integrated planning of building technology (heating, cooling and ventilation, electrical engineering, IT infrastructure, process measuring and control technology)

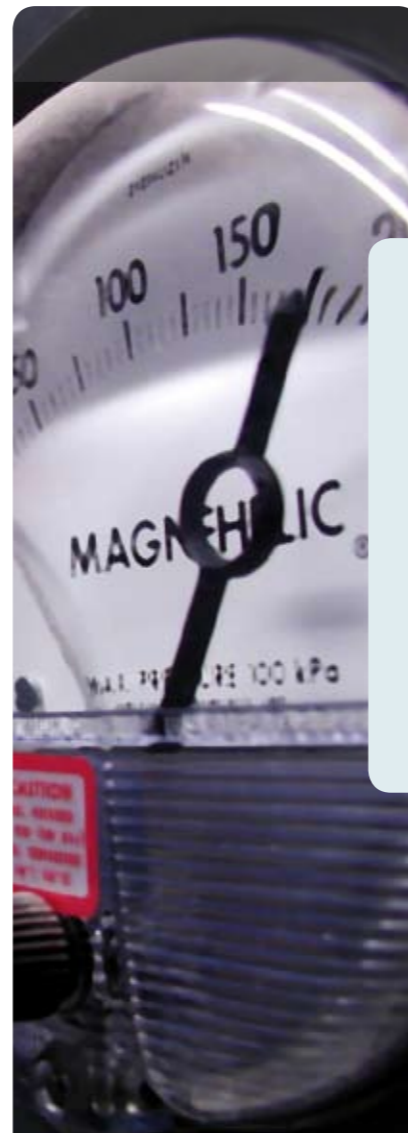
### Construction.

- Realization of building automation, IT infrastructure, process measuring and control technology
- Server-housing

### Operation.

- Optimization
- Continuous improvement process (CIP)
- Maintenance and support

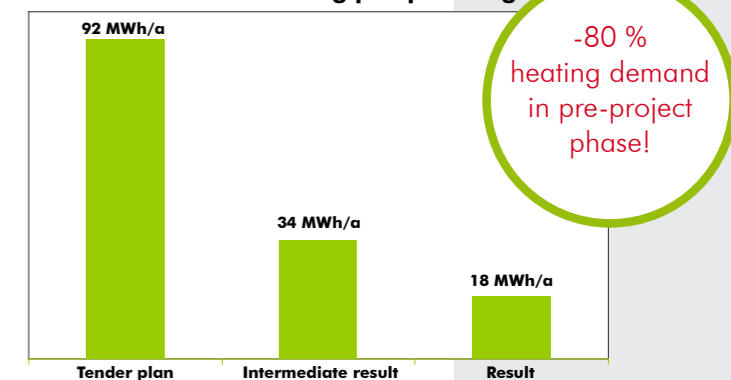
## Based on our Experience.



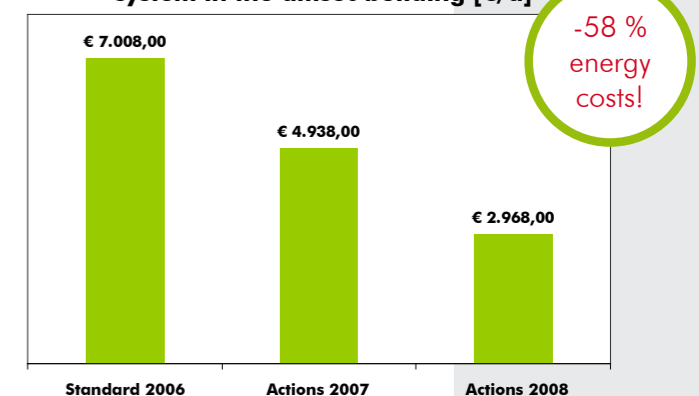
## In a Nutshell.

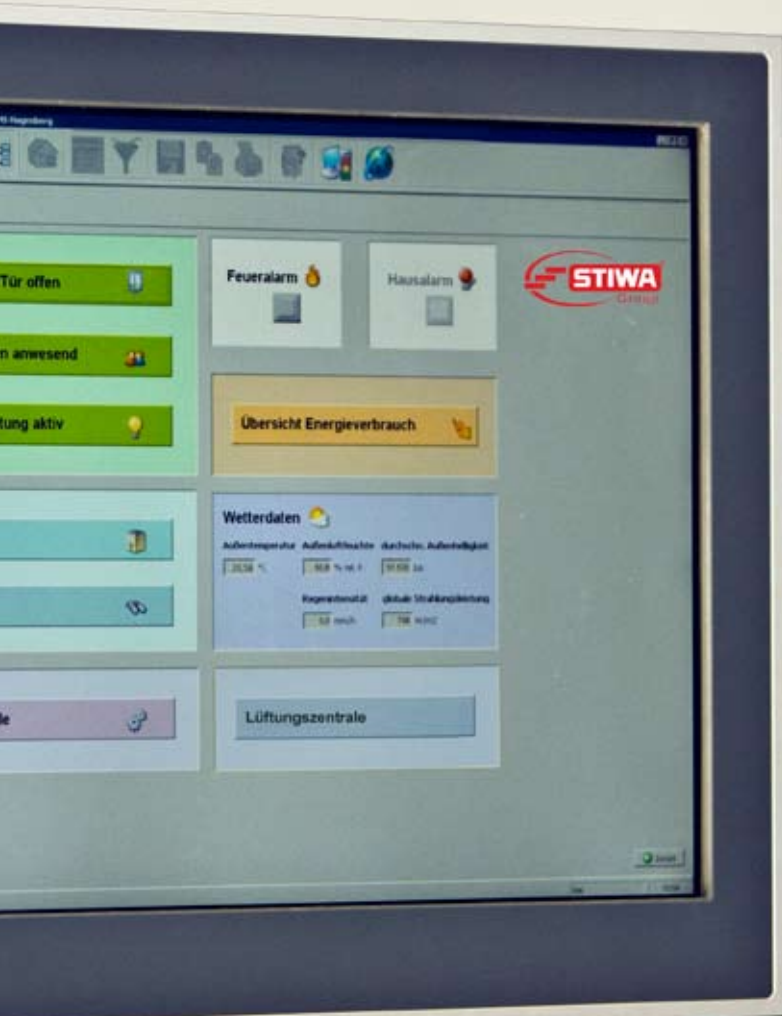
- Optimized commercial buildings combine functionality & well-being
- Optimization should already take place in the pre-project phase
- New building, renovation, operational optimization
- Energy efficient building technology by AMS Engineering
- Up to 80 % less energy costs

Gymnasium: development of heating demand with CIP during pre-planning



Cost-cutting by CIP of the ventilation system in the amsec building [€/a]





## ■ Convince Yourself.

Our archetype is the IT office building and data center amsec, located in the technology center 'Softwarepark Hagenberg' and was awarded the energy star 2007. The holistic energy concept makes it possible to heat the building exclusively with the waste heat of servers.

### **Visit us!**

Our team of experts will be happy to provide you with information and answers.

## ■ Contact.

AMS Engineering GmbH  
Softwarepark 37  
4232 HAGENBERG, AUSTRIA

Tel. +43 7236 3351-0  
Fax +43 7236 3351-9011

[office@stiwa.com](mailto:office@stiwa.com)